

Central Plant Electrification Through Heat Pumps

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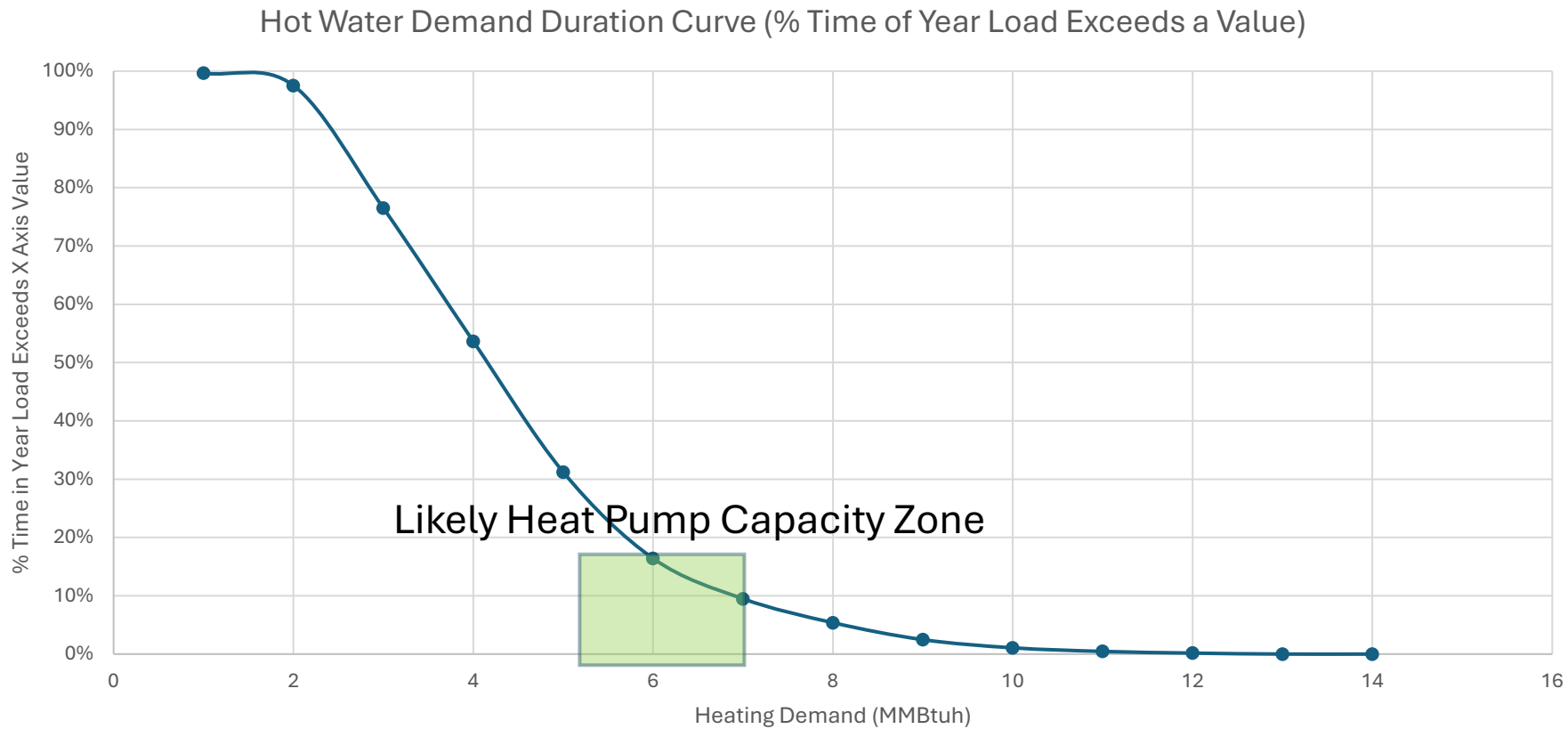


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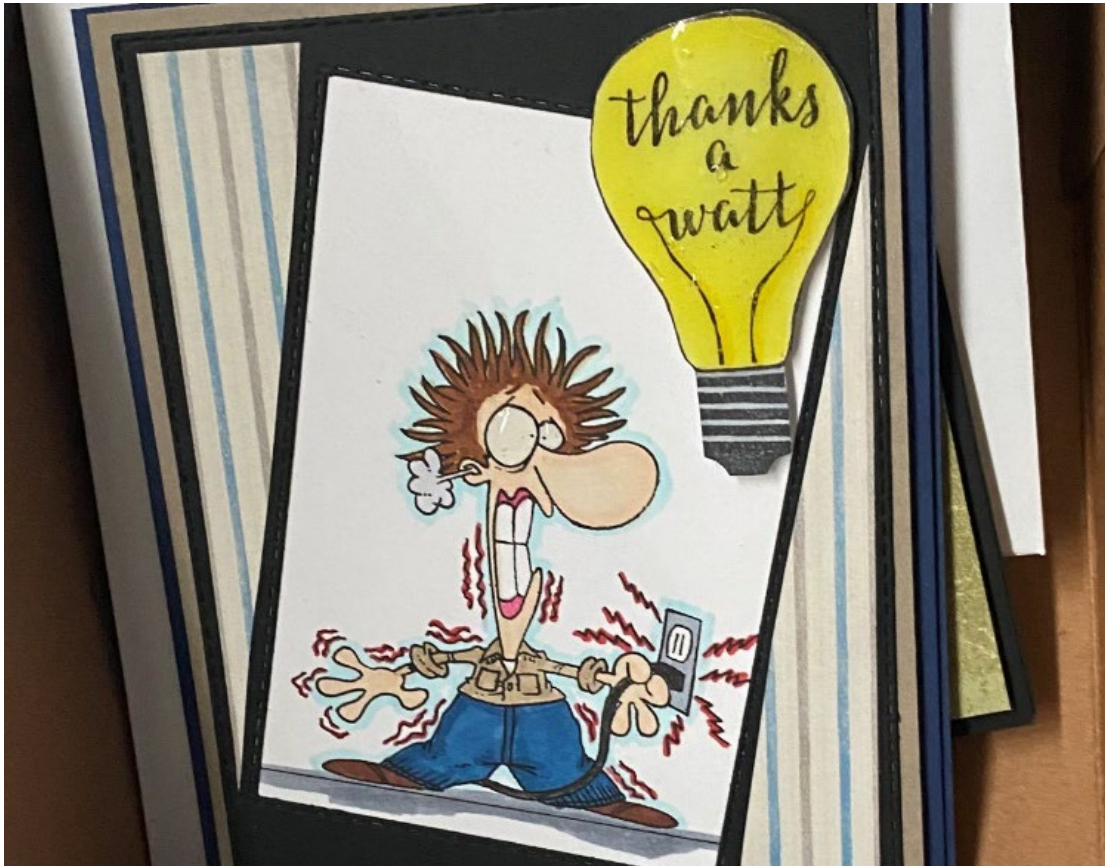


Heating Demand Time Duration Curve



Key lessons DURING DESIGN

- Load profile & hourly modeling – a must first step
- Equipment selection – Visit factory and understand support team and limitations
- Understanding manufacturer preferences and guidelines
- Importance of maintaining DP and flow across heat pump modules
- Integration of heat pumps into existing plant knowing performance limitations



**If Better is Possible,
Good is not Enough**

We're just getting started

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Q&A/Discussion

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